

Data Analysis and Probability
Lesson 26 Worksheet
Math for Standards

Name _____

Date _____

For numbers 1 and 2, find the mean, median, mode, and range for each set of data. Round to the nearest tenth if necessary.

1. Matt Mitarnowski walked the following number of miles each day last two weeks:

6.5 4.2 5.3 6.8 2.9 3.6 5.8 4.2 3.1 5.5 6.1 1.3 2.4 5.2

Which measure of central tendency is the best indicator of the typical number of miles Matt walked each day? Why do you think so?

2. Fuzzy Jeff worked the following number of hours each week for the last 2 months:

38.6 40.5 32.8 36.5 40.5 32.8 42.5 25.5

Which measure of central tendency is the best indicator of the number of hours Jeff worked each week for the last two months? Why do you think so?

3. Shecky earns a base salary of \$500 a week plus a weekly commission. He has earned a commission of \$325, \$460, \$280, \$400, \$380, and \$250 each week for the last six weeks.

a. Find the mean, median, mode, and range for the *just the commission* Shecky earned during these six weeks. Round your answers as necessary.

b. Find the mean, median, and mode for the *total amount* Shecky earned during these six weeks. Round your answers as necessary.

c. What *commission* must Shecky earn *during the seventh week* to raise his *mean weekly total earnings* to \$850?

Open-Ended Question: Answer on a separate piece of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

The data in the table records the mileage owners said their cars got per gallon of gasoline.

Interval MPG	16-20	21-25	26-30	31-35	36-40
Frequency (cars)	3	5	3	7	2

A. How many cars are represented in the table? In which interval is the median?

B. How many car owners said their cars got more than 25 miles per gallon? What percent of the owners said their cars got no more than 25 miles per gallon?

C. How could this data be useful in today's world?